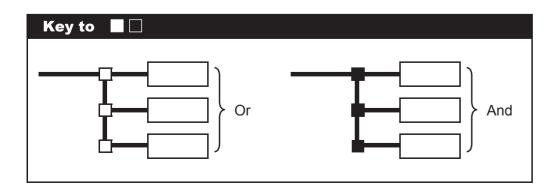
THE POSSIBILITIES ARE INFINITE FUITSU

PRIMERGY®

PRIMERGY N800 Datacenter Server System Configuration Guide (Ver.2) (Jul / 2001)

PRIMERGY N800 ·····	2
Configuration of Clustering	8
Rackmount	9

The numbers on the left hand side of each page correspond to the various options available with PRIMERGY as follows 1 CPU slot 2 RAM module slot 3 3.5 inch HDD Bay 4 5 inch Bay 5 RS-232C 6 PCI slot 7 ISA slot 8 Redundant PSU 9 Others



PRIMERGY N800 (Windows®2000 Datacenter Server)

Features of Windows2000 Datacenter Server

The technical features of Windows2000 Datacenter Server include:

- Support for up to 64GB of real main memory
- 4nodes clustering
- Load distribution services (NLB Network Load Balancing Service)
- Efficient communication between systems (WSDP Windows Socket Direct Path)
- Process control
- Support for up to 32way SMP (Symmetric Multi Processing) systems

The table below shows a comparison of Windows2000 Server products:

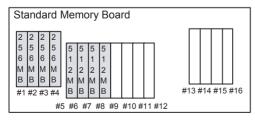
Function	Windows2000 Server	Windows2000	Windows2000
		Advanced Server	Datacenter Server
Processor limit	4	8	32
Memory extension	4GB	8GB	64GB
Network Load Balancing	No	Yes	Yes
Server Clustering	No	Yes (Max. 2nodes)	Yes (Max. 4nodes)
Job Object	Job Object API	Job Object API	Process Control Tool
Winsock Direct	No	No	Yes

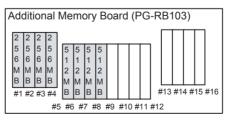
Specification of PRIMERGY N800

Туре		Rackmount		
Product ID		PGTN8BHRD2 PGTN8BGRD2		
CPU	Processor	Pentium® III Xeon™		
	Frequency	700MHz		
	Secondary cache	2MB	1MB	
	Number of CPUs	2 (up to	8)	
Memory	Standard	1GB (256M	B x 4)	
available wi	itt Maximum	32GB (1GB	x 32)	
Internal Bay	ys 5-inch	Two (one occupied	by DVD-ROM)	
	CD-ROM/DVD-ROM	8/24X DVD-R0	OM (IDE)	
	HDD bay	1inch x4/Ho	otplug	
	Available HDD	9.1GB(10000rpm)/18.2GB(10000/1	5000rpm)/36.4GB(10000rpm)	
	Maximum	145.6GB (36.4	4GB x 4)	
Expansion :	slot	PCI64bit 66MHz x4, PCI64bit 33MHz x 6		
SCSI Interfa	ace	Internal: Ultra2 Wide SCSI x 1, Ex	ternal: Ultra2 Wide SCSI x 1	
RAID contro	oller	2 x Ultra160 (occupying one	64bit/33MHz PCI slot)	
Network		LAN(10/100 base TX) x 1 (occupying one 64bit/33MHz PCI slo		
Dimension	(mm)	445(W)x712(D)x312(H) Rackmount7U		
Weight		60kg (max.)		
Power cons	sumption	710W (max.)		
Power supp	oly	Three standard units (the thi	rd unit is for redundant)	
Operating S	System	Windows2000® Datacenter Server	Operating System is bundled	

Mounting Additional Memory

A memory board with 16slots is standard equipment and up to 16GB memory can be mounted. When you add more than 16GB, an additional Memory Board (PG-RB103/PGBRB103) is required. When using two memory boards in N800, the same memory size must be mounted on each board.





PCI resource area

A part of address area as below is assigned for PCI resource, cannot be used.

Operating System	Mounted Memory Size	The area for PCI resource
	~3.8GB	No area for PCI resource
Windows®2000 Datacenter Server	3.8GB ~4.0GB	3.8GB ~4.0GB
[Maximum Memory Size:32GB*]	4.0GB ~32.0GB	3.8GB ~4.0GB

^{*}Up to 32GB Memory can be mounted in one N800.

NOTES

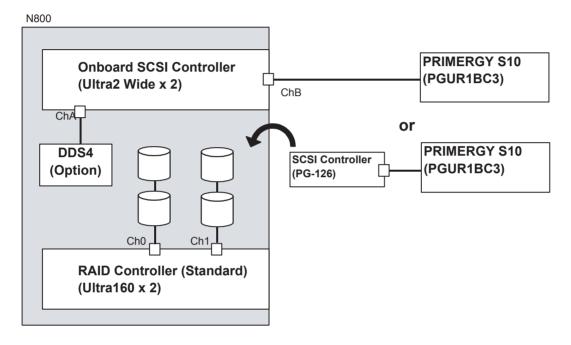
● Install Operating System

- Boot disk can be an external disk. In this case, the disk must be connected to PG-142B RAID Controller.
- Basically, installation should be done by "Installation and Startup Service". So please contact with your local sales representative.

Mounting devices

- In N800, there are four internal HDD bays (2bays/1ch x 2)
- N800 has one internal 5" bay in chassis for DDS4 (In case of SCSI connection, the DDS4 is available for daisy-chain connection with HDD)
- PRIMERGY S10 (Backup Cabinet) is available if " more then two backup devices" or "backup devices except for DDS4" are installed.

Configuration Chart

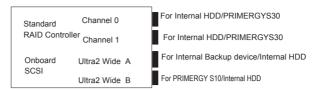


NOTES

Connection Matrix

PRIMERGY N800

Connection of internal HDD and internal backup devices



Internal HDD				Backup device					
		Connection Pattern			One device is co	onnected	Two devices	are connecte	ed
Configuration	SCSI	Host	Cable	Internal HDD	In case that	Except for	Narrow	Wide	Narrow device
	Interface				DDS4 is	DDS4	device x 2	device x 2	and
					connected				Wide device
				Up to four HDDs can be		Or	nboard SCSI	(Ultra2 Wide	Bch)
Array		Standard	Cable(X2)	installed	Onboard SCSI	PRIMERGY S10 (PGUR1BC3)			3)
Configuration	Ultra160	RAID Controller (Ch0/1)	(Standard	1) 9GB, 10,000rpm	(Ach)	SC	CSI Cable (PC	G-CBLS007/00	08/009)
			equipment)	2) 18GB, 10,000rpm			or		
				3) 18GB, 15,000rpm		SC	CSI Controller	(PG-126)	
				4) 36GB, 10,000rpm		PF	RIMERGY S1	0 (PGUR1BC	3)
						SC	CSI Cable (PC	G-CBLS001/00	02/003)

- In case of SCSI configuration (Up to four HDDs can be mounted), internal DDS4 can be connected to ChA of Onboard SCSI by daisy chain.
- when connecting RAID Controller with PRIMERGY S30, or SCSI Controller with Internal HDD, both SCSI Channel of Onboard SCSI Controller must be connected to Internal HDD.

Mountable I/O options

N800

Cards	Product ID	Bus	Maximum number of cards mounted		Total	REMARKS
SCSI Controller	PG-123	PCI64	4]	4] 10	For external disk array
(Ultra Wide Diff) SCSI Controller	PG-126	PCI64	2			
(Ultra2 Wide LVD) Fibre Channel Controller	PG-FC102	PCI64	4			
RAID Controller (Ultra160 LVD)	Standard Equipment	PCI64	1]	5		Mounted in PCI slot1
RAID Controller (Ultra160 LVD)	PG-142B/C	PCI64	4]			
EthernetController (1000Base-SX)	PG-188	PCI64	2]	4		
EthernetController (100Base-TX)	Standard Equipment	PCI64	1			Mounted in PCI slot3
EthernetController (100Base-TX)	PG-185	PCI64	2			
Remote Service Board	PGURSB101	PCI64	1			For Remote Management

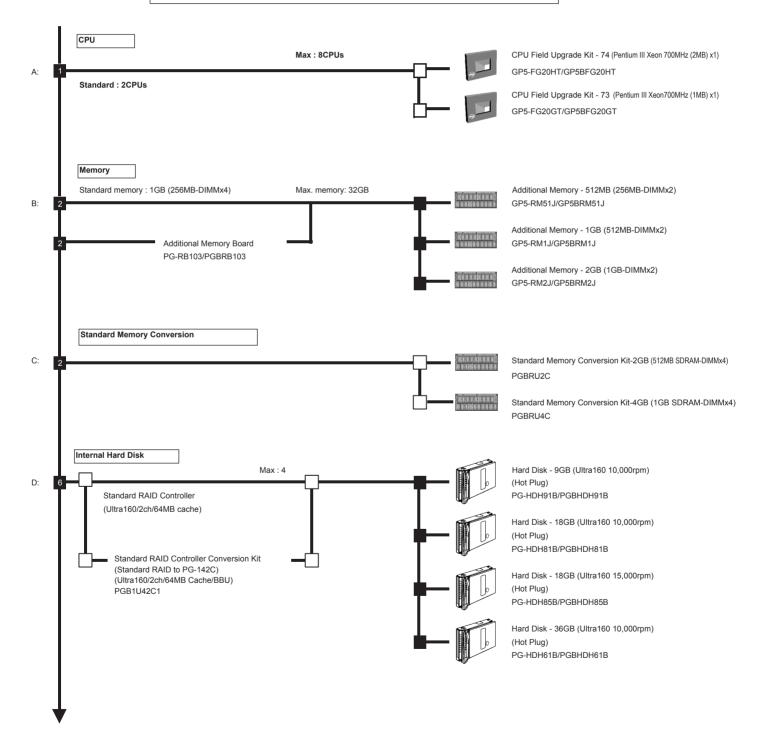
System Configuration

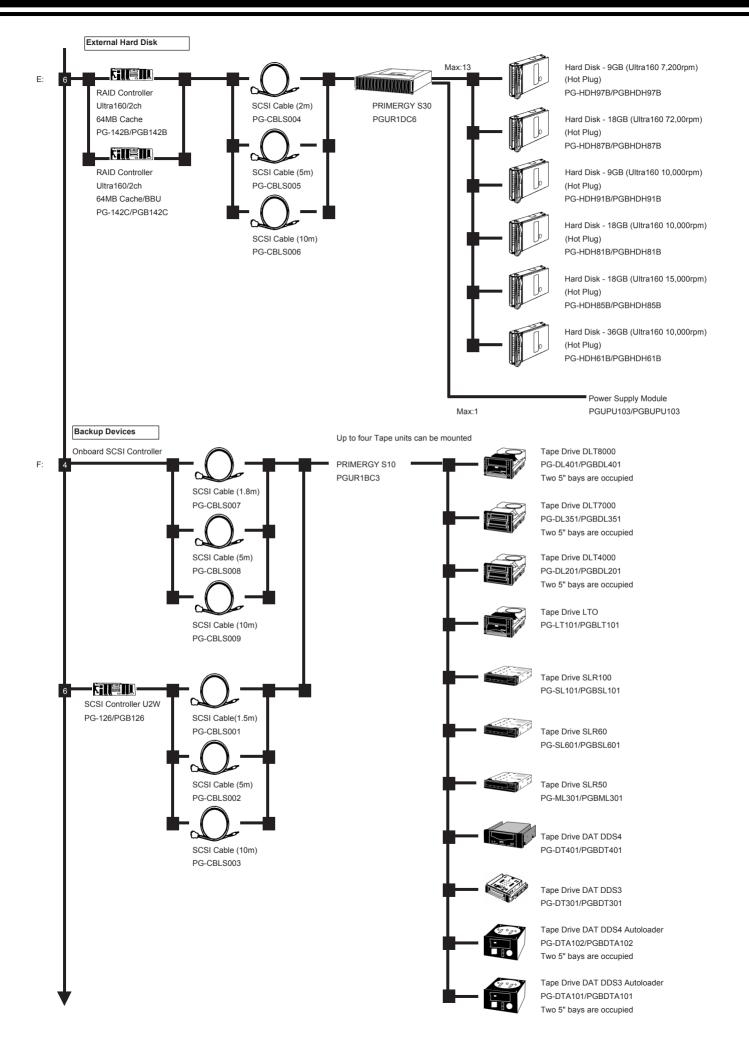
Connection Table



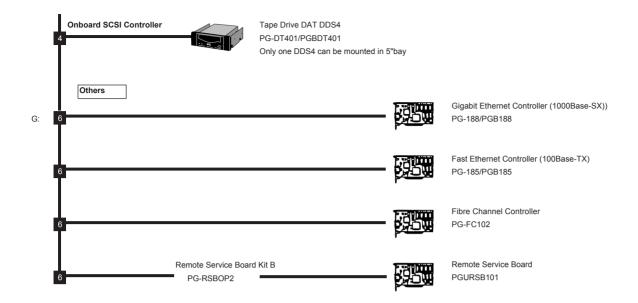
PGTN8BHRD2 Rackmount Type 2 x Pentium® III Xeon™ 700MHz(2MB), Memory:1GB(ECC), HDD:Option PGTN8BGRD2 Rackmount Type 2 x Pentium® III Xeon™ 700MHz(1MB), Memory:1GB(ECC), HDD:Option

<Items>
CPU Field Upgrade:
Go to A
Memory addition:
Go to B
Standard Memory Conversion:
Go to C
Internal Hard Disk Drive connection
External Hard Disk Drive connection
Go to E
Backup devices
Go to F
Others (NIC etc.)
Go to G



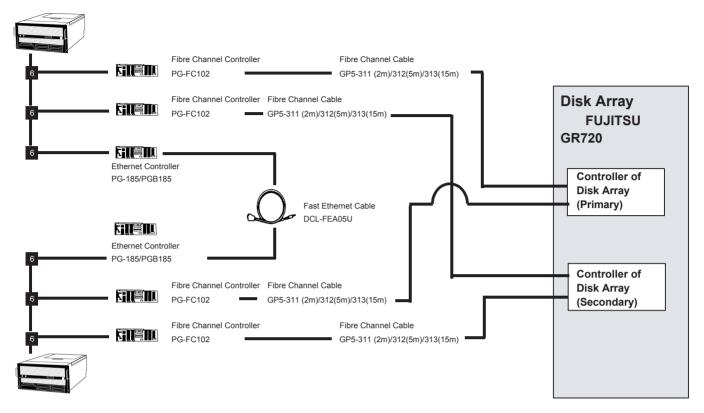


System Configuration

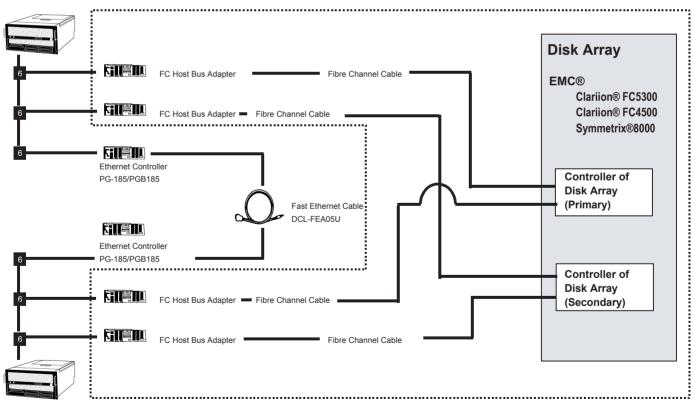


Configuration of Microsoft® Clustering

<PRIMERGY N800 - FUJITSU GR720>

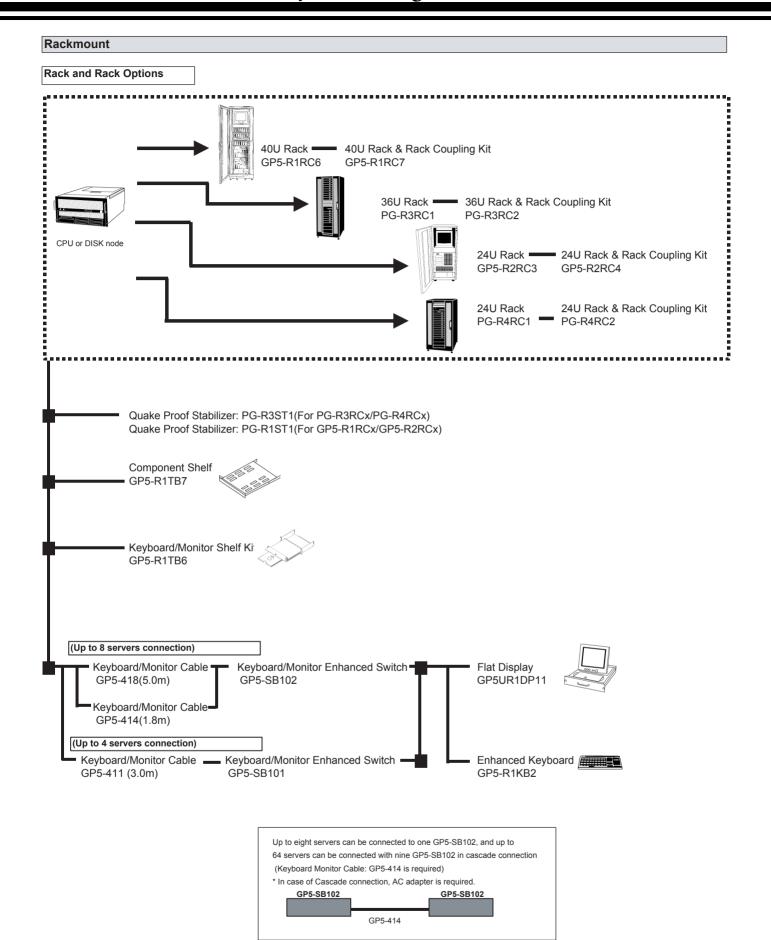


<PRIMERGY N800 - EMC® Clariion®/Symmetrix®>



- Please contact your local FUJITSU sales representative in the case as follows;
 In case of connecting with EMC disk array, each component surrounded by:....: ("Fibre Channel Adapter with driver SW", "Fibre Channel Cable", "Fibre Channel HUB") should be EMC's.
- As for the certified configuration of Windows2000 Datacenter Server.
- Four nodes Clustering.

System Configuration



Product	Product ID	Remarks
CPU Field Upgrade Kit-74	GP5-FG20HT	PentiumIII Xeon(700MHz)/32KB+2MBcachex1,Placed on motherboard
I	GP5BFG20HT	Includes one CPU
CPU Field Upgrade Kit-73	[CTO option] GP5-FG20GT	PentiumIII Xeon(700MHz)/32KB+1MBcachex1,Placed on motherboard
	GP5BFG20GT	Includes one CPU
1	[CTO option]	
Additional Memory 2GB	GP5-RM2J	SDRAM-DIMM (100MHz) 1024MBx2 (Buffered CL/2)
1	GP5BRM2J	
	[CTO option]	
Additional Memory 1GB	GP5-RM1J	SDRAM-DIMM (100MHz) 512MBx2 (Buffered CL/2)
	GP5BRM1J [CTO option]	
Additional Memory 512MB	GP5-RM51J	SDRAM-DIMM (100MHz) 256MBx2 (Buffered CL/2)
· · · · · · · · · · · · · · · · · · ·	GP5BRM51J	
	[CTO option]	
Standard Memory Conversion Kit-4GB	PGBRU4C	Standard Memory conversion 1GB to 4GB
	[CTO option]	
Standard Memory Conversion Kit-2GB	PGBRU2C	Standard Memory conversion 1GB to 2GB
Additional Memory Board	[CTO option] PG-RB103	Additional memory board for mounting more than 16 DIMMs
Additional Memory Board	PG-RB103 PGBRB103	A Additional memory board for mounting more than 10 Dilwins
1	[CTO option]	
Hard Disk Drive-36GB	PG-HDH61B	36.4GB Ultra160 Hotplug HDD <10000rpm> 1"height
I	PGBHDH61B	<n800, and="" n400="" s30=""></n800,>
<u> </u>	[CTO option]	
Hard Disk Drive-18GB	PG-HDH85B	18.2GB Ultra160 Hotplug HDD <15000rpm>1"height
I	PGBHDH85B	<n800, and="" n400="" s30=""></n800,>
Hard Disk Drive-18GB	[CTO option] PG-HDH81B	18.2GB Ultra160 Hotplug HDD <10000rpm>1"height
l	PGBHDH81B	<n800, and="" n400="" s30=""></n800,>
I		available with PRIMERGY as follows
Hard Disk Drive-9GB	PG-HDH91B	9.1GB Ultra160 Hotplug HDD <10000rpm> 1"height
I	PGBHDH91B	<n800, and="" n400="" s30=""></n800,>
	[CTO option]	
PRIMERGY S30	PGUR1DC6	Rackmount(3U) Hard Disk Node Ultra160 / 14 Hotplug HDD bays
(Storage Subsystem)		(1"x14 HDD/2ch) / Maximum capacity is 509.6GB (36.4GB x14) Redundant&Hotplug FAN(Std.)/PSU(Opt.)
1		1. PG-142B/PG-142C/PG-143B - PG-CBLS004/PG-CBLS005/PG-CBLS006
1		2. GP5-150/1501- PG-CBLS004/PG-CBLS005/PG-CBLS006
1		<available hdd=""></available>
		PG-HDH61B/PG-HDH85B/PG-HDH81B/PG-HDH91B/PG-HDH87B/PG-HDH97B
I		Only for Array configuration, CTO is available
<u> </u>		
Tana Driva DAT DDC4	DC DT404	Internal DAT unit (DDC 4/200B 400B)
Tape Drive DAT DDS4	PG-DT401	Internal DAT unit (DDS-4:20GB-40GB)
Tape Drive DAT DDS4 (DAT Unit)	PGBDT401	Internal DAT unit (DDS-4:20GB-40GB)
		Internal DAT unit (DDS-4:20GB-40GB) Internal DAT unit (DDS-3:12-24GB)
(DAT Unit)	PGBDT401 [CTO option]	
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit)	PGBDT401 [CTO option] PG-DT301	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DTA101 PGBDTA101 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 PGBDTA101 PGBDTA101 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DTA101 PGBDTA101 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied *1 PRIMERGY S10 is required to mount
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(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader) Tape Drive DLT4000 (DLT Unit) Tape Drive DLT7000 (DLT Unit)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DL201 PGBDL201 [CTO option] PG-DL351 PGBDL351 [CTO option] PG-DL361 PGBDL351 [CTO option] PG-DL401 PGBDL401 PGBDL401	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader) Tape Drive DLT4000 (DLT Unit) Tape Drive DLT7000 (DLT Unit) Tape Drive DLT8000	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DL201 PGBDL201 [CTO option] PG-DL351 PGBDL351 [CTO option] PG-DL351 PGBDL351 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT8000: 40-80GB) Two 5"bays are required and occupied
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader) Tape Drive DLT4000 (DLT Unit) Tape Drive DLT7000 (DLT Unit) Tape Drive DLT8000 (DLT Unit)	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DL201 PGBDL201 [CTO option] PG-DL351 PGBDL351 [CTO option] PG-DL351 PGBDL351 [CTO option] PG-DL401 PGBDL401 [CTO option]	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT8000: 40-80GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount
(DAT Unit) Tape Drive DAT DDS3 (DAT Unit) Tape Drive DAT DDS4 Autoloader (DAT Autoloader) Tape Drive DAT DDS3 Autoloader (DAT Autoloader) Tape Drive DLT4000 (DLT Unit) Tape Drive DLT7000 (DLT Unit) Tape Drive DLT8000	PGBDT401 [CTO option] PG-DT301 PGBDT301 [CTO option] PG-DTA102 PGBDTA102 [CTO option] PG-DTA101 PGBDTA101 [CTO option] PG-DL201 PGBDL201 [CTO option] PG-DL351 PGBDL351 [CTO option] PG-DL361 PGBDL351 [CTO option] PG-DL401 PGBDL401 PGBDL401	Internal DAT unit (DDS-3:12-24GB) *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied *1 PRIMERGY S10 is required to mount Internal DLT unit(DLT8000: 40-80GB) Two 5"bays are required and occupied

Product	Product ID	Remarks
	-	
Tape Drive SLR50	PG-ML301	Internal Tape unit (SLR50: 25-50GB)
(Tape Unit)	PGBML301	*1 PRIMERGY S10 is required to mount
Tape Drive SLR60	[CTO option] PG-SL601	Internal Tape unit (SLR60: 30-60GB)
(Tape Unit)	PG-SL601	*1 PRIMERGY S10 is required to mount
(Tape Offic)	[CTO option]	T T MINEROT OTO IS required to modific
Tape Drive SLR100	PG-SL101	Internal Tape unit (SLR100: 50-100GB)
(Tape Unit)	PGBSL101	*1 PRIMERGY S10 is required to mount
	[CTO option]	
PRIMERGY S10	PGUR1BC3	Rackmount 3U 5" bay node for N800/N400/H200
(Backup Cabinet)		Up to four Tape units can be mounted
		<available backup="" devices=""></available>
		Occupy two bays : PG-DL201/PG-DL351/PG-DL401/PG-DTA101/PG-DTA102
		Occupy one bay: PG-SL101/PG-SL601/PG-ML301/PG-DT401/PG-DT301
		*CTO is available
Power Supply Module	PGUPU103	Redundant PSU (500W) *Power Code is required
	PGBUPU103	<primergy s30=""></primergy>
	[CTO option]	*1 S30 is available on N800/N400/MS610/H200
Power Supply Module	PG-PU102	Redundant PSU (500W) *Power Code is required <primergy n400="" s10=""></primergy>
	PGBPU102 [CTO option]	*1 S10 is available on N800/N400/H200
40U Rack	GP5-R1RC6	19" 40U Locker , Front door,rear door,side panel,earthquake proof
400 Rack	Or 3-Kilkou	board ,blank panel is attached. Size(WxDxH)mm:600x900x2000
		<number for="" installation="" of="" required="" units=""></number>
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		Component shelf: 5U
		CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
		Color: Black
40U Rack&Rack	GP5-R1RC7	19"40U Locker + connection metal fittings Front door,rear
Coupling Kit		door,concatenation frame,blank panel is attached.
		Color: Black
36U Rack	PG-R3RC1	19" 36U Locker , Front door,rear door,side panel,earthquake proof
		board ,blank panel is attached. Size(WxDxH)mm:700x950x1800
		<number for="" installation="" of="" required="" units=""></number>
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		Component shelf: 5U
		CRT/KB switch: Mounted at side of CRT (occupies same U as CRT) Color: Black
36U Rack&Rack	PG-R3RC2	19"36U Locker + connection metal fittings Front door,rear
Coupling Kit		door,concatenation frame,blank panel is attached.
		Color: Black
24H Pack	CDE PARCA	49" 2411 Joskov Front door room door side parts! and strucks areas
24U Rack	GP5-R2RC3	19" 24U Locker , Front door,rear door,side panel,earthquake proof board, blank panel is attached. Size(WxDxH)mm:700x950x1267
		Number of units required for installation>
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		Component shelf: 5U
		CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
		Color: Black
24U Rack&Rack	GP5-R2RC4	19"24U Locker + connection metal fittings Front door,rear
Coupling Kit		door,concatenation frame,blank panel is attached.
		Color: Black

Product	Product ID	Remarks
24U Rack	PG-R4RC1	19" 24U Locker , Front door,rear door,side panel,earthquake proof board, blank panel is attached. Size(WxDxH)mm:600x900x1200 <number for="" installation="" of="" required="" units=""> N800: 7U PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT) Color: Black</number>
24U Rack&Rack Coupling Kit	PG-R4RC2	19"24U Locker + connection metal fittings Front door,rear door,concatenation frame,blank panel is attached. Color: Black
Component Shelf	GP5-R1TB7	Shelf to fit peripheral device into 40U Rack, Table size:400(W)x500(D) Color: Black
Keyboard/Monitor Shelf Kit	GP5-R1TB6	Used to store display unit (CRT), a keyboard (KB), and a mouse on a rack. Color: Black
Keyboard/Monitor Enhanced Switch	GP5-SB101	Switch enables sharing of a set of CRT,keyboard,and mouse by two or more servers (up to four servers).
Keyboard/Monitor Enhanced Switch	GP5-SB102	Switch enables sharing of a set of CRT,keyboard,and mouse by two or more servers (up to eight servers). Shared up to 64 servers in cascade connection.* AC adapter is required for cascade connection (Procured locally)
Keyboard/Monitor Cable	GP5-418	For connection with switch (For connection GP5-SB102) (5.0m)
Keyboard/Monitor Cable	GP5-414	For cascade connection between GP5-SB102 (1.8m)
Keyboard/Monitor Extension Cables	GP5-411	CRT/KB cable for connection Server with GP5-SB101, CRT cablex1,KB/Mouse cablex1 is attached
Enhanced Keyboard	GP5-R1KB2	87Key keyboard for Rackmountable type
Flat Display	GP5UR1DP11	Rackmountable LCD display with Keyboard, 2U height <gp5ur1dp1 +="" gp5-r1rk7=""></gp5ur1dp1>
SCSI Controller UW (SCSI Card)	PG-123 PGB123 [CTO option]	Ultra Wide HVD (High Voltage Differential)/1ch/SMART HDD is not supported/ Up to 40MB/s of synchronous transfer support <connector></connector>
		- 68-pin connector for external SCSI - 68-pin connector for internal SCSI - 50-pin connector for internal SCSI <use> For connection with external Disk Array * SCSI cable is required.</use>
SCSI Controller U2W (SCSI Card)	PG-126 PGB126 [CTO option]	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI <use> For connection with external Disk Array</use>
(SCSI Card) RAID Controller U160 2Channels (RAID Card)	PGB126 [CTO option] PG-142B PGB142B [CTO option]	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI <use> For connection with external Disk Array * SCSI cable is required. Ultra2 Wide(LVD)*1ch/SMART HDD/Up to 80MB/s transfer speed <connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) <use> For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported For internal/external array configuration</use></connector></use>
RAID Controller U160 2Channels (RAID Card) RAID Controller U160 2Channels (RAID Card)	PGB126 [CTO option] PG-142B PGB142B [CTO option] PG-142C PGB142C [CTO option]	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector with external Disk Array - SCSI cable is required. Ultra2 Wide(LVD)/1ch/SMART HDD/Up to 80MB/s transfer speed - Connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - Use> - For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported - For internal/external array configuration RAID Controller, Ultra160/2ch/64MB cache/Battery Backup/ RAID level 0,1,5,6(0+1) are supported - For internal/external array configuration
(SCSI Card) RAID Controller U160 2Channels (RAID Card) RAID Controller U160 2Channels	PGB126 [CTO option] PG-142B PGB142B [CTO option] PG-142C PGB142C	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector with external Disk Array - SCSI cable is required. Ultra2 Wide(LVD)/1ch/SMART HDD/Up to 80MB/s transfer speed - Connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - Use> - For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported - For internal/external array configuration RAID Controller, Ultra160/2ch/64MB cache/Battery Backup/ RAID level 0,1,5,6(0+1) are supported
(SCSI Card) RAID Controller U160 2Channels (RAID Card) RAID Controller U160 2Channels (RAID Card) Standard RAID Controller	PGB126 [CTO option] PG-142B PGB142B [CTO option] PG-142C PGB142C [CTO option] PGB1U42C1	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connection with external Disk Array - SCSI cable is required. Ultra2 Wide(LVD)/1ch/SMART HDD/Up to 80MB/s transfer speed - Connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - Use> - For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported - For internal/external array configuration RAID Controller, Ultra160/2ch/64MB cache/Battery Backup/ RAID level 0,1,5,6(0+1) are supported - For internal/external array configuration Convert Standard RAID Controller to PG-142C
(SCSI Card) RAID Controller U160 2Channels (RAID Card) RAID Controller U160 2Channels (RAID Card) Standard RAID Controller Conversion Kit	PGB126 [CTO option] PG-142B PGB142B [CTO option] PG-142C PGB142C [CTO option] PGB1U42C1 [CTO option]	- 68-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector for internal SCSI - 50-pin connector with external Disk Array * SCSI cable is required. Ultra2 Wide(LVD)/1ch/SMART HDD/Up to 80MB/s transfer speed <connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) <use> For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported For internal/external array configuration RAID Controller, Ultra160/2ch/64MB cache/Battery Backup/ RAID level 0,1,5,6(0+1) are supported For internal/external array configuration Convert Standard RAID Controller to PG-142C <n800> External SCSI Cable [HDCI-HDCI] (1.5m) <connection></connection></n800></use></connector>

Product	Product ID	Remarks
SCSI Cable	PG-CBLS004	External SCSI Cable [VHDCI-VHDCI] (2m)
		<connection></connection>
		- RAID Controller and S30
SCSI Cable	PG-CBLS005	External SCSI Cable [VHDCI-VHDCI] (5m)
		<connection></connection>
		- RAID Controller and S30
SCSI Cable	PG-CBLS006	External SCSI Cable [VHDCI-VHDCI] (10m)
		<connection></connection>
		- RAID Controller and S30
SCSI Cable	PG-CBLS007	External SCSI Cable [VHDCI-HDCI] (1.8m) <n800 400=""></n800>
		<connection></connection>
		- N800: Onboard SCSI Controller to S10/External SCSI devices
2001011		- N400: PGBCBLS011 to S10/External SCSI devices
SCSI Cable	PG-CBLS008	External SCSI Cable [VHDCI-HDCI] (5m) <n800 400=""></n800>
		<connection></connection>
		- N800: Onboard SCSI Controller to S10/External SCSI devices
20010.11	DO 001 0000	- N400: PGBCBLS011 to S10/External SCSI devices
SCSI Cable	PG-CBLS009	External SCSI Cable [VHDCI-HDCI] (10m) <n800 400=""> <connection></connection></n800>
		- N800: Onboard SCSI Controller to S10/External SCSI devices
		- N400: PGBCBLS011 to S10/External SCSI devices
Fast Ethernet Cable	DCL-FEA05U	Fast Ethernet Cable for node-node connection in Clustering configuration (5m)
Fibre Channel Cable	GP5-311	Fibre Channel Cable (2m)
Fibre Channel Cable	GP5-312	Fibre Channel Cable (5m)
Fibre Channel Cable	GP5-313	Fibre Channel Cable (15m)
Gigabit Ethernet Controller	PG-188	1000BASE-SX/PCI64bit-66MHz/Driver is included
(Fibre)	PGB188	*Fibre Channel cable is required : GP5-311/2m, GP5-312/5m, GP5-313/15m
(. 15.5)	[CTO option]	Tible Statistics easiers required . St. C. C. Tiblin, St. C. C. Elem, St. C. C. C.
Fast Ethernet Controller	PG-185	100BASE-TX/10BASE-T/PCI64bit/Driver is included
	PGB185	*Twisted pair cable (category5:100BASE-TX/category3:10BASE-T) is required
	[CTO option]	,,,,.,.,.,.,.,.,.,.,.,,.,
Fibre Channel Controller	PG-FC102	1GB Optical, FC-AL/FC-Fabric, Duplex SC port for external device
Remote Service Board	PGURSB101	Optional remote server management board (PCI)
		CPU, External Interface (10BASE-T/RS232C), External PowerSupply
		(AC adapter - Option) are on the board
Remote Service Board Kit B	PG-RSBOP2	Optional Kit for mounting RSB
		ServerView for RSB CD-ROM, Connector, Power Code are included
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